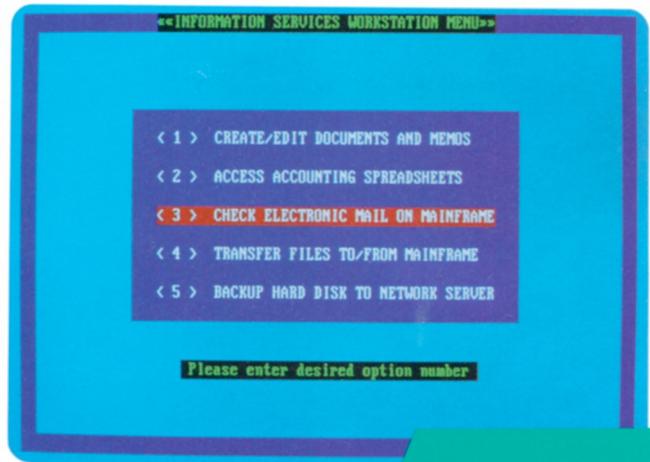# NOW!™
PC/HOST AUTOWARE™

BEFORE

NOW!

"Why should I write a complex HLLAPI program? NOW! gave me everything I need to automate host access."
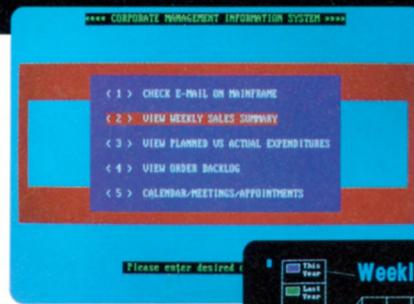
Al Canton
Sr. Analyst, New Systems
Development, QMA

NOW!™ is a new type of software product from Attachmate that automates and helps simplify nearly any PC-to-mainframe transaction. We call it *autoware,*™ which is short for automation software. □ NOW! eliminates the confusing and time-consuming process of logging onto a mainframe and working with mainframe data by

replacing it with simple menus and single keystroke commands. □ Since users don't have to learn the many steps and commands involved with accessing mainframe applications, their time is spent more efficiently. □ So everyone who needs to work with mainframes can be a lot more productive. Starting *NOW!*

An easy menuing system lets you retrieve mainframe information with a single keystroke.

Now it's easy for anyone to work with a mainframe.

Now anyone can work with a mainframe—quickly, easily, and effectively. All you need is NOW!, a new type of program from Attachmate.

NOW! does the hard work of logging onto the mainframe, negotiating confusing screens, entering commands, and retrieving data.
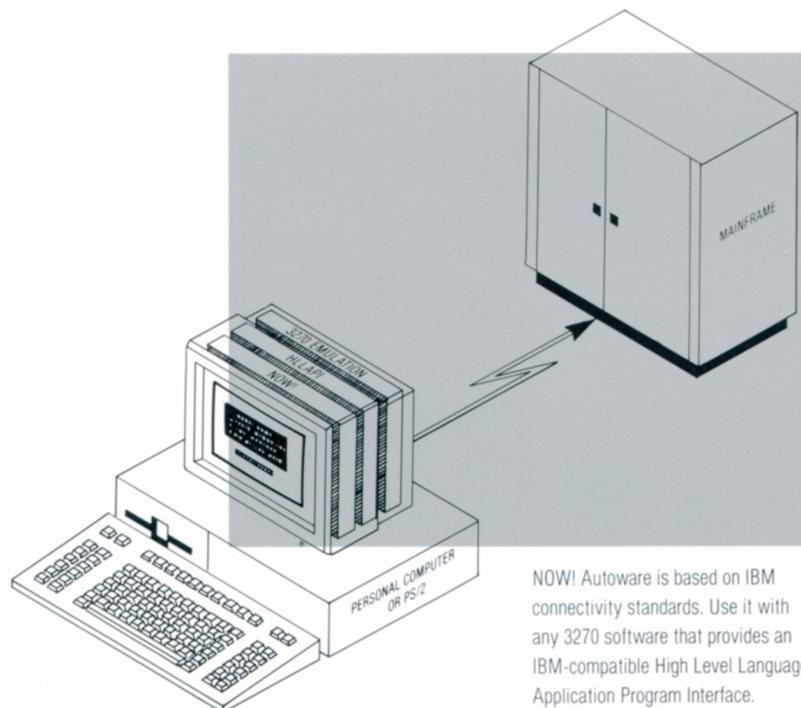
That means your users can concentrate on their work, not on trying to get a computer to do what they want.

NOW!—the shortest distance between users and mainframes.
There are as many uses for NOW! as there are people who need to access and work with mainframe information.

For example, people can use NOW! to retrieve and send electronic mail. Download mainframe graphics. Transfer mainframe data into a PC spreadsheet or database program. Or perform unattended file transfers.

"NOW! lets me do HLLAPI functions today—
without knowing HLLAPI."

Jim Derr
Design Programmer
Fireman's Fund Insurance

NOW! Autoware is based on IBM connectivity standards. Use it with any 3270 software that provides an IBM-compatible High Level Language Application Program Interface.

NOW! does everything for them, from responding to on-screen prompts to entering commands. And it does it all with a single keystroke.

It's fast, easy, and completely automatic. And it's available now.

So unique we had to create a new software category. NOW! is a brand new type of software developed by Attachmate called *autoware*. Autoware means *automation software*—it automates the operation of other software packages.

Part of the effectiveness of autoware comes from the richer, more productive user interface it provides. With NOW!, users never have to confront baffling mainframe screens. Instead, they work with a simple menu that you create which clearly lists the choices they have.

The result—you spend less time supervising your users. And they spend more time doing productive work.

Lets people do more in less time. The whole idea behind NOW! is to eliminate the time people spend trying to figure out how to log onto a mainframe. Once they log on, it also streamlines the way they work with mainframe data.

Since NOW! completely automates the process of working with a mainframe, people don't even have to interact with the computer. They can work on something else while NOW! takes care of the repetitive work of dealing with the mainframe.

Or you can take advantage of NOW!'s unattended operation for nighttime file transfers. The information can be waiting for the user in a PC file first thing in the morning.

Forget about errors and security concerns. Once you tell NOW! what to do, it performs its work without mistakes time after time. Your people don't have to worry about entering the wrong key-strokes and getting lost in the mainframe.

And you don't have to worry about unauthorized access to mainframe information. With NOW!, users can only go where you want them to go.

To add to NOW!'s security, you can get two separate versions of the program. The fully functional Author's Version includes everything you need to create and edit autoware programs. The User's Version is capable of running only autoware programs—it cannot be used to change programs created with the Author's Version.

As easy to program as it is to use. NOW! is designed to make it easy for people who aren't programmers to create autoware programs. Each program is made up of a series of macros, which are English-language statements that perform various operations.

For example, to automate the mainframe log-on procedure, an autoware program might contain a group of macros that look for the log-on screen from the host, enter the user ID, prompt the user to enter a password, and so on.

NOW!'s macros are easy to understand and use. For example, the macro "CONNECT" instructs NOW! to connect to the host mainframe. These simple macros allow you to create sophisticated NOW! programs quickly.

A built-in editor lets you modify macros as you work, and a "step" command takes you through your macros one at a time so you can find errors easily.

How NOW! does its work. NOW! reads the macros you enter into autoware programs and interprets them into functions that are recognized by IBM's High Level Language API (HLLAPI). HLLAPI provides a way for PC programs to perform functions that are normally done by a human operator. It must be supported by your 3270 PC-mainframe vendor in order for NOW! to run.

Since NOW! converts simple statements into a form HLLAPI understands, it offers a way for you to easily develop programs that work with HLLAPI without dealing with complicated languages like COBOL, PASCAL, or C.

From leaders in PC-to-mainframe technology. NOW! is from Attachmate. We're the fastest growing company in PC-mainframe connectivity.

And the reason is simple—we take the time to understand exactly what people need. Then do the hard work to develop products that meet those needs.

One example is our popular EXTRA! Connectivity Software. And with NOW! or EXTRA! or any of our products, we remain devoted to total IBM compatibility. We avoid proprietary designs, so you can avoid dead-end products.

Get NOW! PC-to-host autoware now. You can start helping your organization run smoother right now.

To find out more about NOW! or for ordering information, call 1-800-426-6283.

"With NOW!, I can spend less time on programming code and more time helping customers."

Steven Verne
PC Specialist
Litton Computer Services

English-language macros make it easy to create autoware programs. Here is the NOW! macro to draw this menu box:

DRAW RED WITH DOUBLE WHITE BORDER FROM ROW 8 COLUMN 15 TO ROW 17 COLUMN 65

To add menu choices:

SHOW AT ROW 11 COLUMN 23 "<1> SEND FILE TO MAINFRAME"

SHOW AT ROW 13 COLUMN 23 "<2> RECEIVE FILE FROM MAINFRAME"

SHOW AT ROW 20 COLUMN 29 "Please Enter Selection"

< 1 > SEND FILE TO MAINFRAME
< 2 > RECEIVE FILE FROM MAINFRAME

Please Enter Selection

Full customer support—including a toll-free hotline.

At Attachmate, we're committed to first-rate customer support. Our support includes a toll-free hotline that links you with one of the best technical support teams in the business.

Each one of our technical support people is thoroughly experienced with our products and trained to handle any problem from beginning to end.

We also offer an electronic bulletin board with NOW! macros from other users that you can download and use in your own autoware programs.

Attachmate

Attachmate Corporation
13231 SE 36th St.
Bellevue, WA 98006

For ordering information, call 1-800-426-6283 or, in Washington State: (206) 644-4010

NOW! Host Automation Software

Here are the macros which are included with NOW!, along with a brief description of their functions. Notice how the English-language format of the macros makes them easy and intuitive to use.

Host Connection Macros

These macros are used to work directly with the mainframe session, allowing your autoware program to read host screens and enter keystrokes as if a real person were doing the work.

CONNECT
Connects NOW! to the mainframe session.

FIND CURSOR
Specifies the row and column position of the cursor on the mainframe screen.

GET AT ROW
Reads information from the mainframe screen.

LOOK
Searches the host screen for specific information.

SEND
Sends information to the mainframe as if it had been typed at the keyboard.

MONITOR
Suspends the autoware program until the user presses a specific key.

JUMP
Switches host sessions, or jumps to a notepad or DOS.

WSCTRL
Performs certain "workstation control" functions, such as starting screen capture and saving notepads.

STATUS
Returns the status of the mainframe session.

HLLAPI
Allows you to directly access HLLAPI from your autoware program.

User Interface Macros

These macros let you design user menus and other custom screens that can replace complex host screens.

CLEAR (color)
Clears the PC screen and sets screen color.

ATTRIBUTE
Sets the text and background color.

DRAW
Draws a rectangle of a specified color.

SHOW
Displays a message on the PC screen.

BEEP
Causes the PC to sound a beep.

INPUT
Waits for information from the user.

KEY
Waits for a single keystroke from the user.

PRINT
Sends information to the PC printer.

Information Control Macros

These macros allow you to manipulate information. The information can be from the host, from the user, or from the autoware program itself.

ADD
Adds two numbers together.

SUBTRACT
Subtracts one number from another.

MULTIPLY
Multiplies two numbers together.

DIVIDE
Divides one number by another.

ASSIGN
Assigns a value to a variable.

Sequence Control Macros

These macros allow your autoware program to make decisions based on information from the mainframe or from the user.

CALL (label)
Jumps to another area of the autoware program and runs until reaching a LEAVE macro (see below).

LEAVE
Returns to the macro immediately following the CALL macro.

GOTO (label)
Jumps to another area in the program and runs macros at that location.

IF NO GOTO (label)
Jumps to another area in the program if the LOOK macro did not find the information you requested.

IF NO CALL (label)
Jumps to another area in the program and runs until reaching a LEAVE macro if the LOOK macro did not find the information you requested.

PAUSE
Stops executing the autoware program for a specified number of seconds.

WAIT HH:MM
Uses the PC clock to suspend the autoware program until the designated time. Useful for late-night file transfers.

RUN
Suspends NOW! and runs another DOS application.

EXIT
Stops executing the autoware program and returns to the DOS prompt.

File Management Macros

These macros directly interface with the PC operating system, as opposed to the mainframe operating system. They are used to start a file transfer to or from the mainframe, open DOS files to allow for the writing of data, or to run DOS applications.

UPLOAD
Sends a file from the PC to the mainframe.

DOWNLOAD
Receives a file from the mainframe.

OPEN
Initializes a PC file to read or write.

READ
Reads information from a PC file.

WRITE
Writes information to a PC file.

Editing Macros

Development macros allow NOW!'s built-in editor to be used to help create or change your autoware program.

EDITOR ON
Turns on the on-screen editor.

EDITOR STEP
Executes NOW! macros one at a time.

EDITOR SLOW
Executes NOW! macros at the rate of one per second.

EDITOR OFF
Turns off the on-screen editor.

SCREEN [25] [43]
Changes the video mode of an EGA-equipped system to either a 25- or 43-line display.